

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT IS FOR THE MAINTENANCE OF TRAFFIC. TEMPORARY TRAFFIC CONTROL SIGNALS WITH STREET LIGHTING SHALL BE INSTALLED TO THE EAST AND WEST OF THE ST. CLEMENT'S BRIDGE FOR THE DURATION OF THE REHABILITATION.

THE SIGNAL WILL OPERATE IN A TWO PHASE, ONE-WAY MODE AND SHALL BE COORDINATED WITH THE M.O.T. SIGNING PLANS.

THE TRAFFIC CONTROL SIGNAL SHALL BE REMOVED AT END OF THE PROJECT PER THE DIRECTION OF THE PROJECT ENGINEER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER TRAFFIC PHONE: 410-844-1003	ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS PHONE: 410-787-7631
JAMES FOLDEN ASSISTANT DISTRICT ENGINEER CONSTRUCTION PHONE: 410-841-1031	EDWARD RODENHIZER CHIEF, SIGNAL OPERATION SECTION PHONE: 410-787-7652
ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER MAINTENANCE PHONE: 410-841-1013	EUGENE BAILEY CHIEF, SIGN OPERATION SECTION PHONE: 410-787-7676
JOE HORTY ASSISTANT DISTRICT ENGINEER UTILITIES PHONE: 410-841-1005	HELLON OGALLO PROJECT MANAGER SIGNAL DESIGN SECTION PHONE: 410-787-4018

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR

CATAGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	SIZE '5' CONTROLLER POLE MOUNTED CABINET
900000	1 EA	RELAY (110/120 VOLTS) 11 PINS

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CATAGORY CODE	QUANTITY	DESCRIPTION
203030	6 CY.	TEST PIT EXCAVATION
585625	24 LF.	12" WHITE PERFORMED THERMOPLASTIC PAVEMENT MARKING
800000	11 EA.	INSTALL 40' CLASS II WOOD UTILITY POLE
802501	45 LF.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805011	25 LF.	1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805029	100 LF.	2" U GUARD PVC RISER
805050	2 EA.	3" WEATHERHEAD
805125	25 LF.	2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807410	1 EA.	ELECTRICAL UTILITY SERVICE & DISTRIBUTION EQUIPMENT (120/240 VOLTS, 200 AMPS) PER STD. TYP. 807.04-02
810010	90 LF.	ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG-THHN/THWN)
811001	2 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
831010	2 EA.	250 WATT HPS LUMINAIRE AND LAMP
837001	1 EA.	GROUND ROD- 3/4" DIA. x 10' LENGTH
860284	12 EA.	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861104	1420 LF.	ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
861107	1370 LF.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
861116	1340 LF.	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) TRAY
862101	1000 LF.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	285 LF.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
866103	2 EA.	15' LIGHTING ARM
869101	1115 LF.	STEEL SPAN WIRE - 1/4" DIAMETER
869102	140 LF.	STEEL SPAN WIRE - 3/8" DIAMETER
871201	1 EA.	INSTALL CONTROLLER & CABINET-POLE MOUNTED
873001	1 EA.	REMOVAL AND SALVAGE EXISTING EQUIPMENT

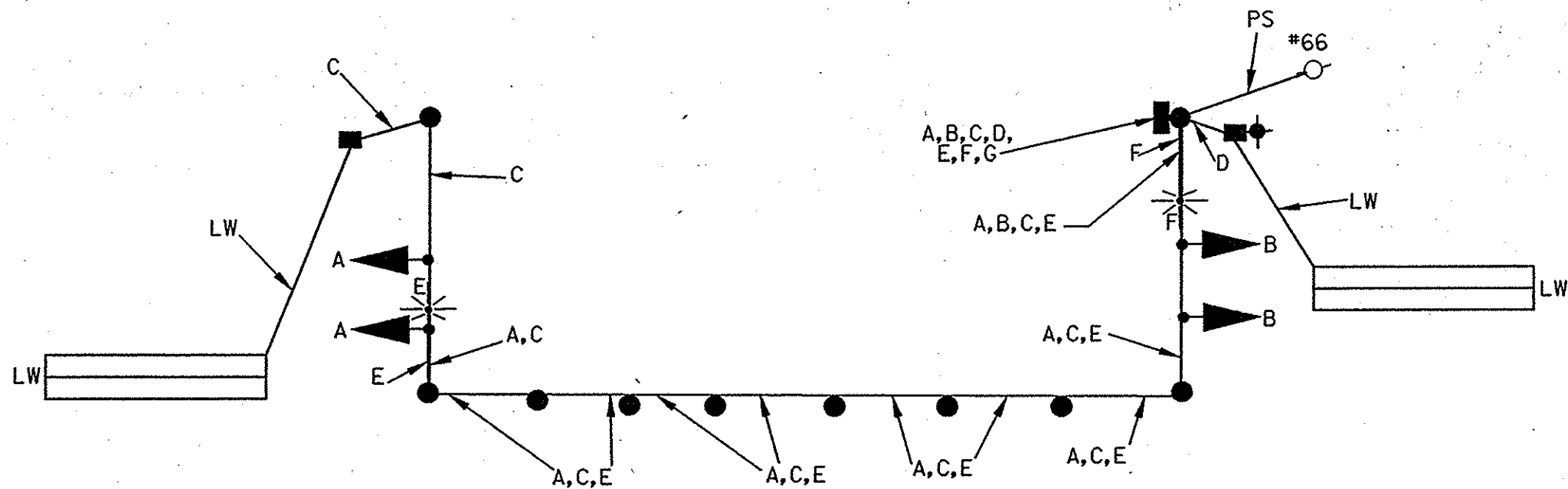
EQUIPMENT LIST 'C'

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS AN EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
Phase 1	G	G	R	R	→
1 Change	Y	Y	R	R	
Phase 2	R	R	R	R	→
2 Change	R	R	R	R	
Phase 3	R	R	G	G	←
3 Change	R	R	Y	Y	
Phase 4	R	R	R	R	→
4 Change	R	R	R	R	
Flashing Operation	FL/R	FL/R	FL/R	FL/R	→ ←

WIRING DIAGRAM



WIRING KEY

- LW - LOOP WIRE ENCASED IN 1/4 " FLEXIBLE TUBING (NO.14AWG)
- A,B - 5-CONDUCTOR NO.14 AWG
- C,D - 2-CONDUCTOR ALUMINUM SHIELDED
- E,F - 2-CONDUCTOR NO.12 AWG-TARY CABLE
- G - 1-CONDUCTOR NO.4 AWG-THHN/THWN
- ⬤ - GROUND ROD
- PS - PROPOSED OVERHEAD ELECTRICAL SERVICE
- - CLASS II WOOD POLE

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

BRIDGE NO. 18016, MD 234 OVER ST. CLEMENTS CREEK

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	7/10/2008	CONTRACT NO.	SM3475160
DESIGNED BY	EMM	COUNTY	ST MARY'S		
DRAWN BY	EMM	LOGMILE	18023409.44		
CHECKED BY	TMH		I-175		
F.A.P. NO.					
DRAWING NO.	TS 4873 GI	SHEET NO.	2 OF 2		

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

CEI JOB NO. 25003.73

PLOTTED: WEDNESDAY, JULY 09, 2008 AT 02:59 PM
FILE: G:\TRANS\DWG\25003\25003.73 MD 234 ST CLEM MOT SG\MOT TEMP SIGNAL\TSG\MOT-002 MD234.DGN